

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Edwin SOUTHERN et al. :
Serial No. NEW : Attn: Application Branch
Filed August 23, 2001 : Attorney Docket No. 2001_1178

A METHOD FOR ANALYSING A POLYNUCLEOTIDE
CONTAINING A VARIABLE SEQUENCE AND A SET
OR ARRAY OF OLIGONUCLEOTIDES THEREFOR (AS AMENDED)
(Rule 1.53(b) Divisional of Serial No. 09/502,778,
Filed February 11, 2000)

SUBMISSION OF REVISED FORMAL DRAWINGS

Assistant Commissioner for Patents,
Washington, DC 20231

Sir:


There are submitted herewith seven sheets of paper formal drawings in the above-identified application showing Figs. 1-6.

The attached drawings have been revised to correct each item objected to by the Examiner and/or the Chief Draftsman.

Kindly substitute the attached formal drawings for those of record.

Respectfully submitted,
Edwin SOUTHERN et al.

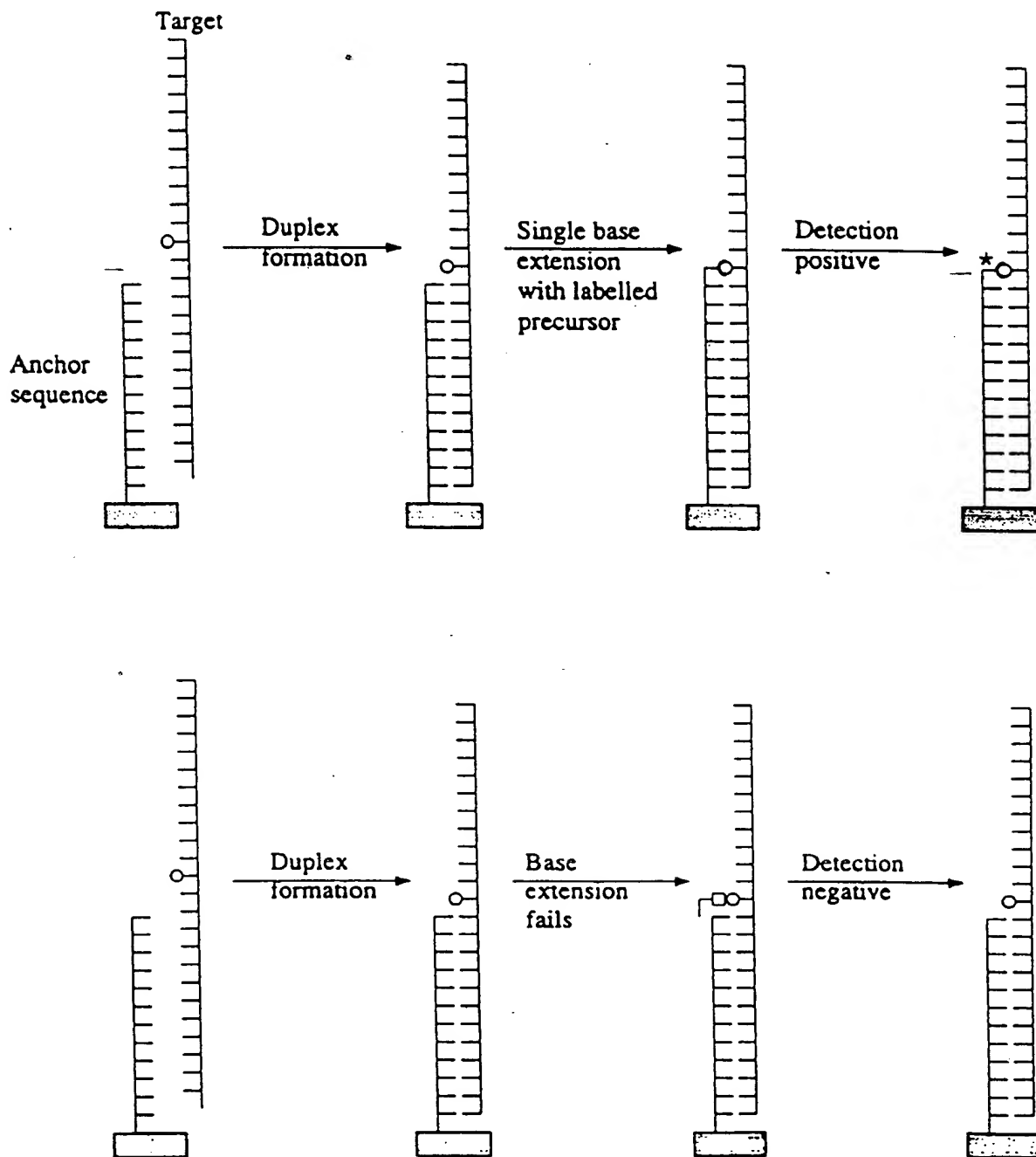
By


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August 23, 2001

Fig.1

Detection of point mutation by single base extension



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Fig.2

Detection of point mutation by hybridisation to ASOs
and chain extension

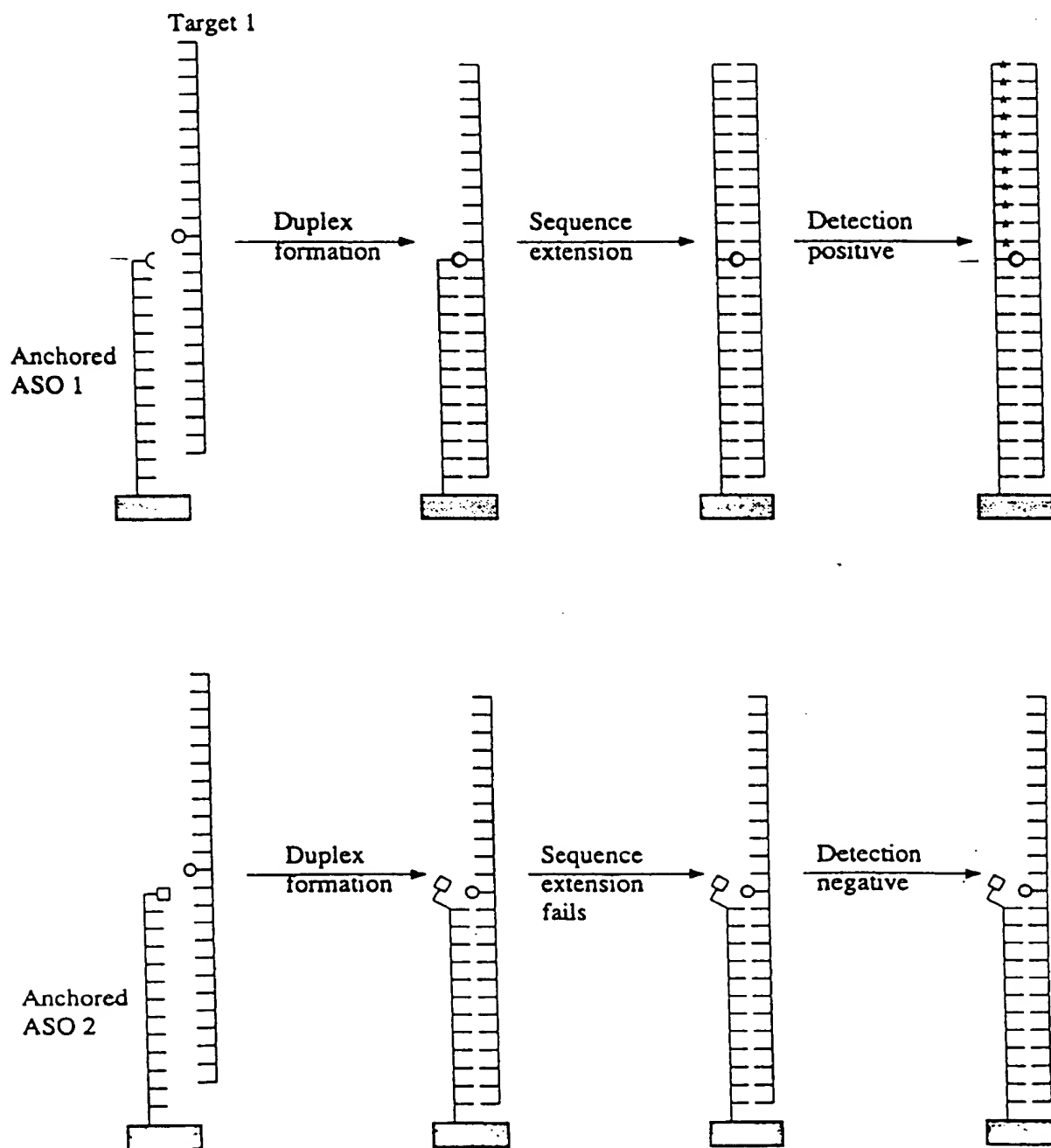
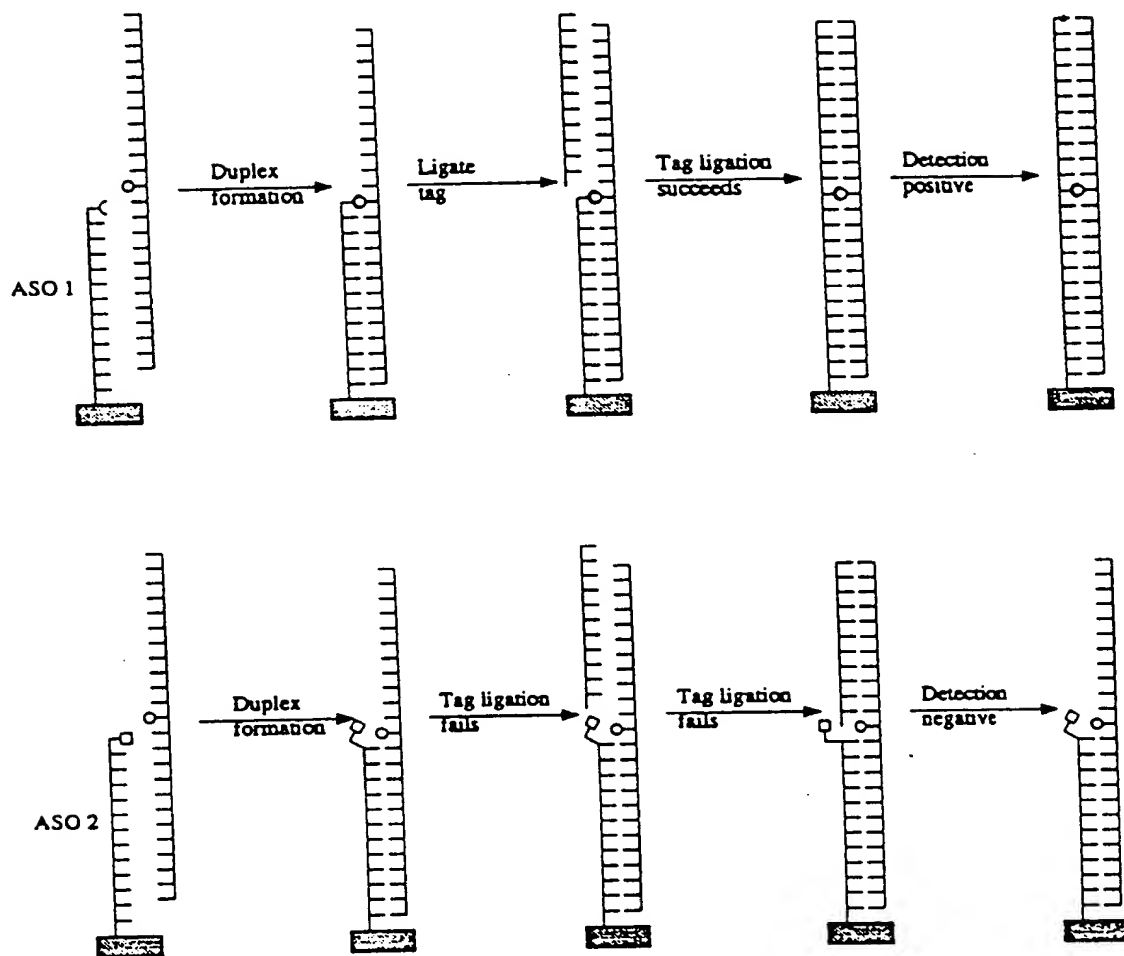


Fig.3

A. Detection of point mutation by tag ligation to ASOs



B. Detection of point mutation by ligation to library of differentially tagged ASOs

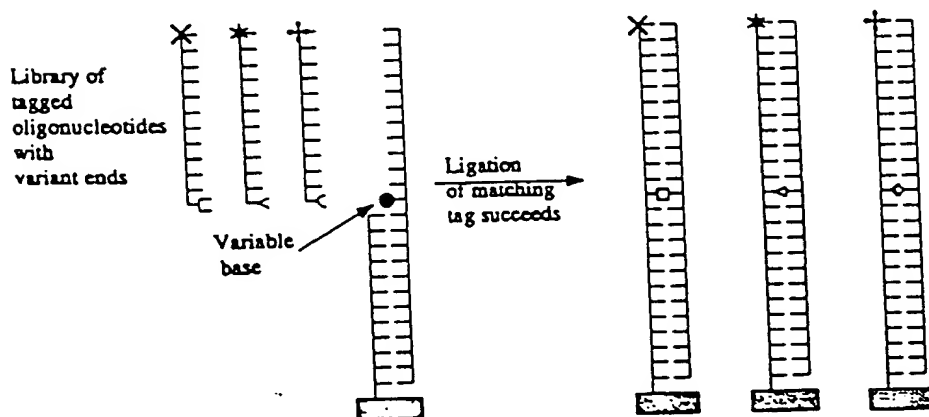
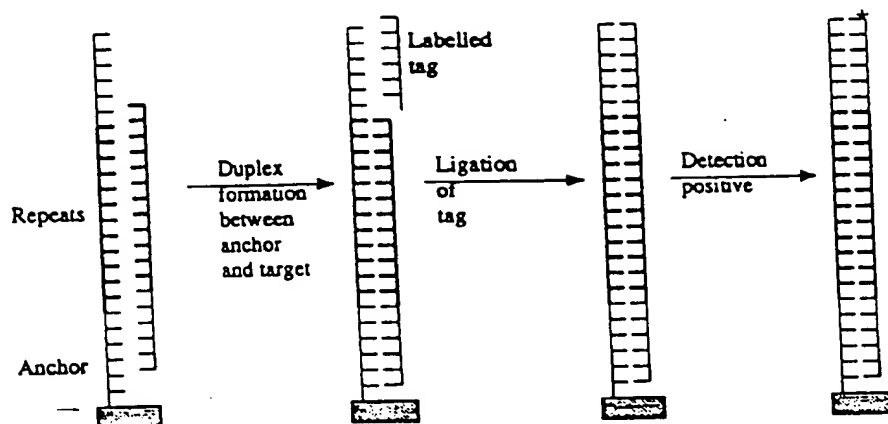


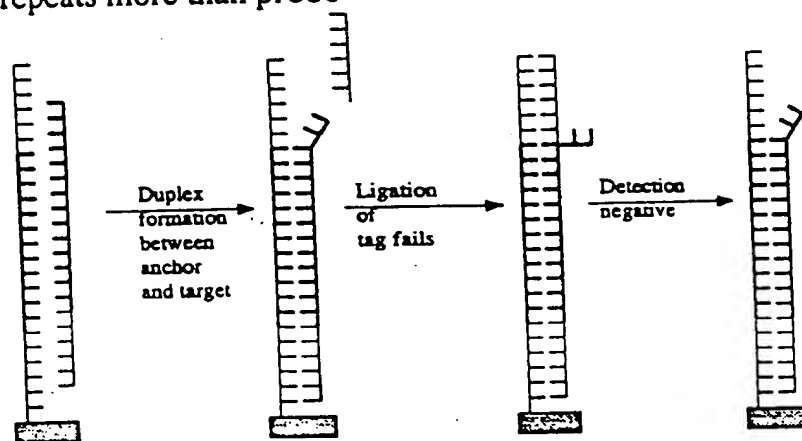
Fig.4a

Analysis of VNTRs by ligation of tag to allelic variants

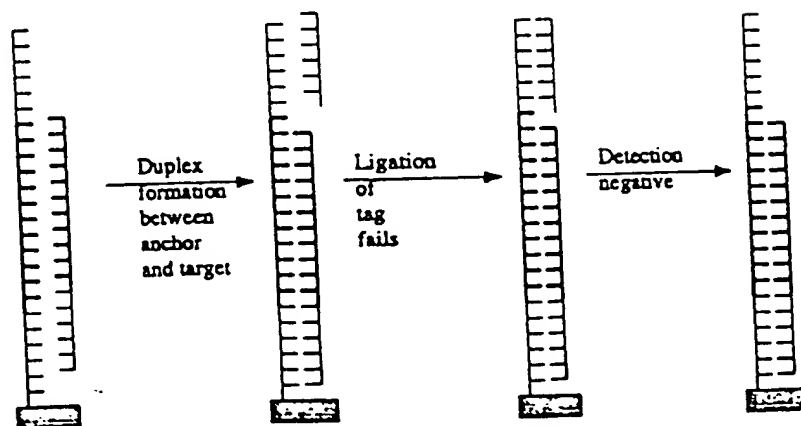
A. Target repeats equal probe



B. Target repeats more than probe



C. Target repeats less than probe

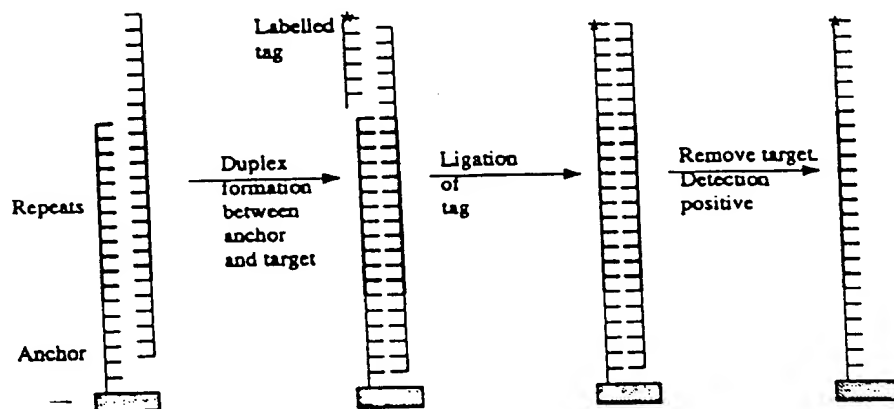


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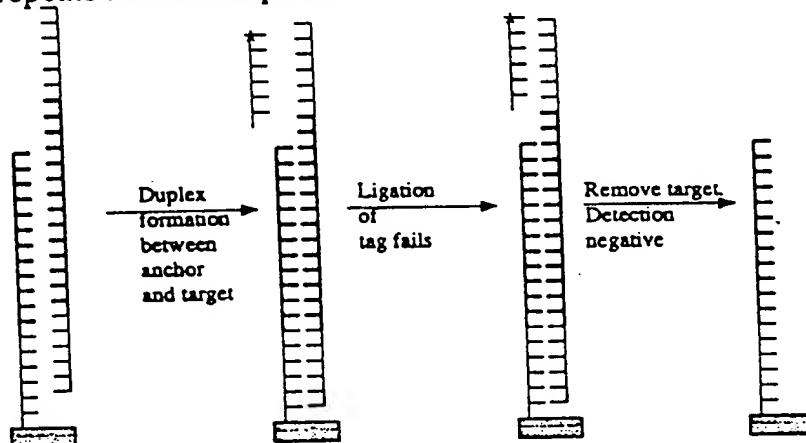
Fig.4b

Analysis of VNTRs by ligation of tag to allelic variants

A. Target repeats equal probe



B. Target repeats more than probe



C. Target repeats less than probe

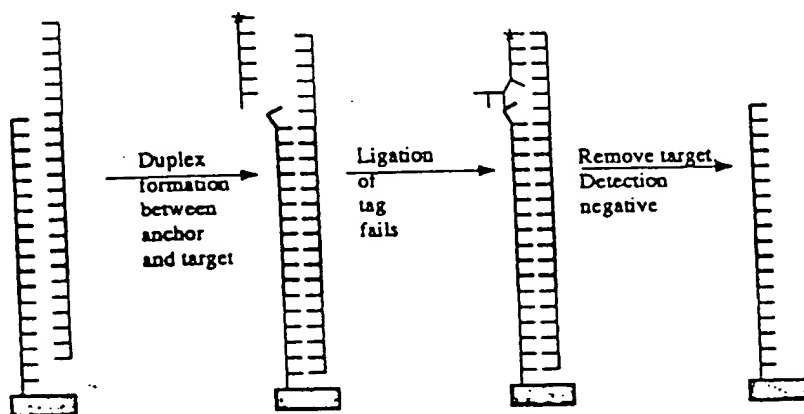


Fig.5

Measurement of VNTRs by labelled chain extension

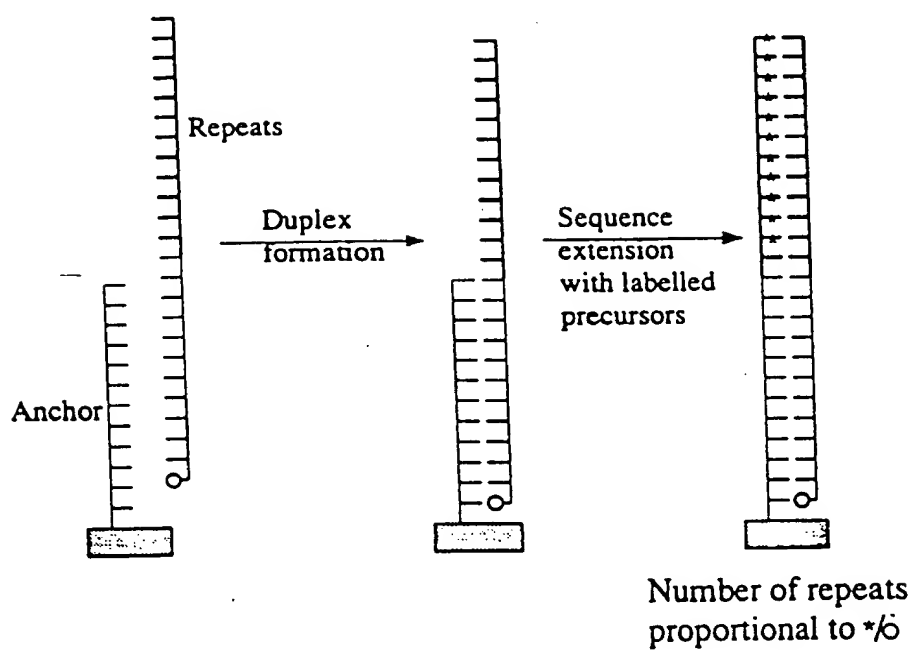
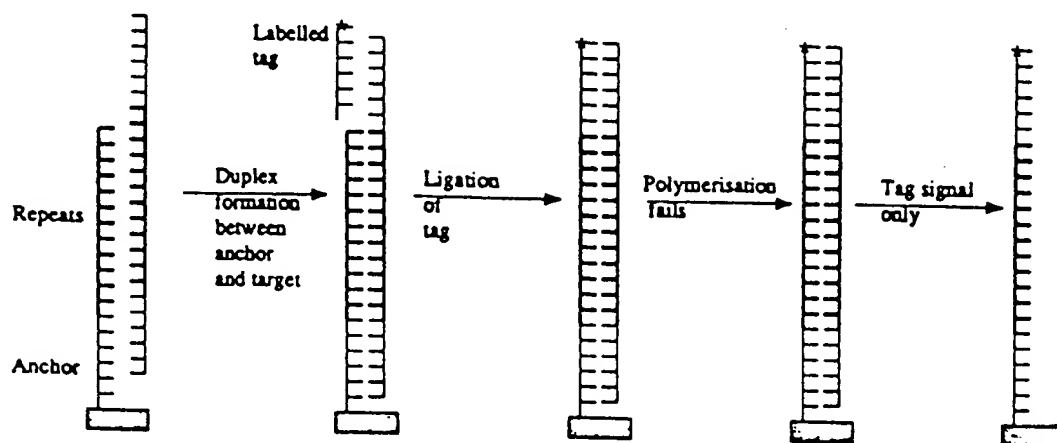


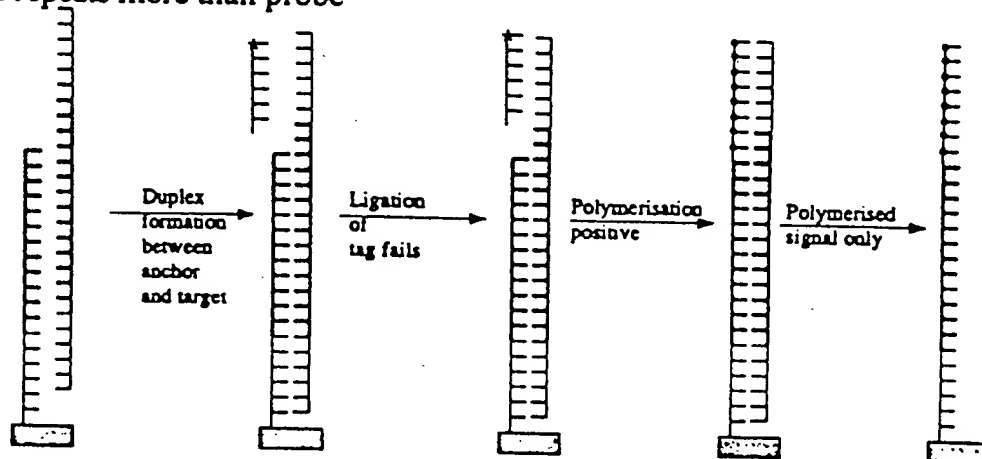
Fig.6

Analysis of VNTRs by ligation of tag followed by chain extension

A. Target repeats equal probe



B. Target repeats more than probe



C. Target repeats less than probe

